Performance of Structures During the Oct. 12, 1992 Cairo Earthquake

Ali A. Rahman[1] and Khalid M. Yousri[2]

Abstract:

On October 12, 1992 at 3:25 PM, Cairo, Egypt was shaken by an earthquake which registered a Richter magnitude of 5.6. This paper outlines the seismic activity zones in Egypt and the seismic damage of structures caused by the October 1992 Cairo earthquake. The performance of wall-bearing structures, reinforced concrete frames, bridges and schools is evaluated. The Egyptian Code for earthquake resistant design is explained by the Equivalent Static Load Approach and Dynamic Response Analysis.

DOI: 10.70803/001c.140839

[1] Professor, Department of Structural Engineering Faculty of Engineering, Cairo University, Giza, Egypt.
[2] Assistant Lecturer, General Organization for Housing, Building & Planning Research, P.O. Box 1770, Cairo, Egypt.